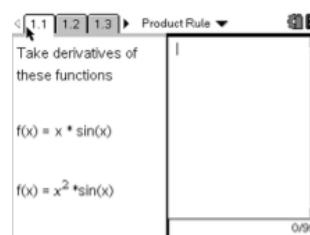


## 3.3b Rules for Differentiation

Use Product Rule.tns to discover the rule for taking derivatives of products of functions.



Sep 11-10:09 PM

Take the derivative of  $y = (x^2 + 1)(x^3 + 3)$

Sep 11-10:12 PM

The Quotient Rule

$$\frac{d}{dx}\left(\frac{u}{v}\right) =$$

Differentiate  $f(x) = \frac{x^2 - 1}{x^2 + 1}$

Sep 11-10:13 PM

Power rule for negative integer powers of x

Sep 11-10:16 PM

Find an equation for the line tangent to the curve  $y = \frac{x^2 + 3}{2x}$  at  $x=1$

Sep 11-10:17 PM

Example 9 p 123

Sep 11-10:19 PM